



## SEQUENCE LISTING

<110> Pereira, Andrea  
Wentworth, Diana Bilodeau  
Gandhi, Rita

<120> KINESIN-LIKE PROTEINS AND METHODS OF USE

<130> 07917-198001

<140> US 10/735,972  
<141> 2003-12-15

<150> US 60/433,098  
<151> 2002-12-13

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Val Val His Val Val Asp Lys His Ile Leu Val Phe Asp Pro Lys Gln  
35 40 45  
  
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ata aag aaa caa aat aag gat ctt aaa ttt gta ttt gat gct gtt ttt 240  
Ile Lys Lys Gln Asn Lys Asp Leu Lys Phe Val Phe Asp Ala Val Phe  
65 70 75 80  
  
gat gaa acg tca act cag tca gaa gtt ttt gaa cac act act aag cca 288  
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85 90 95  
  
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Ile Leu Arg Ser Phe Leu Asn Gly Tyr Asn Cys Thr Val Leu Ala Tyr			
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115	120	125	
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Glu Pro Gly Val Met Tyr Leu Thr Met Leu His Leu Tyr Lys Cys Met			
130	135	140	
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Asp Glu Ile Lys Glu Lys Ile Cys Ser Thr Ala Val Ser Tyr Leu			
145	150	155	160
gag gta tat aat gaa cag att cgt gat ctc tta gta aat tca ggg cca		528	
Glu Val Tyr Asn Glu Gln Ile Arg Asp Leu Leu Val Asn Ser Gly Pro			
165	170	175	
ctt gct gtc cg <sup>g</sup> gaa gat acc caa aaa ggg gtg gtc gtt cat gga ctt		576	
Leu Ala Val Arg Glu Asp Thr Gln Lys Gly Val Val Val His Gly Leu			
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Thr Leu His Gln Pro Lys Ser Ser Glu Glu Ile Leu His Leu Leu Asp			
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210	215	220	
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Ser Ser Arg Ser His Ala Val Phe Gln Ile Tyr Leu Arg Gln Gln Asp			
225	230	235	240
aaa aca gca agt atc aat caa aat gtc cgt att gcc aag atg tca ctc		768	
Lys Thr Ala Ser Ile Asn Gln Asn Val Arg Ile Ala Lys Met Ser Leu			
245	250	255	
att gac ctg gca gga tct gag cga gca agt act tcc ggt gct aag ggg		816	
Ile Asp Leu Ala Gly Ser Glu Arg Ala Ser Thr Ser Gly Ala Lys Gly			
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Thr Arg Phe Val Glu Gly Thr Asn Ile Asn Arg Ser Leu Leu Ala Leu			
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Gly Asn Val Ile Asn Ala Leu Ala Asp Ser Lys Arg Lys Asn Gln His			
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Gly Gly Asn Cys Gln Thr Ile Met Ile Ala Ala Val Ser Pro Ser Ser			

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355	360	365	
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370	375	380	
tta ttg tta aaa gaa aaa cta aaa gcc tat gaa gaa cag aaa gcc ttc Leu Leu Leu Lys Glu Lys Leu Lys Ala Tyr Glu Glu Gln Lys Ala Phe			1200
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405	410	415	
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420	425	430	
cga gaa gaa att aga caa gaa tat ctg aag ttg gaa atg tta ctt aaa Arg Glu Glu Ile Arg Gln Glu Tyr Leu Lys Leu Glu Met Leu Leu Lys			1344
435	440	445	
gaa aat gaa ctt aaa tca ttc tac caa caa cag tgc cat aaa caa ata Glu Asn Glu Leu Lys Ser Phe Tyr Gln Gln Cys His Lys Gln Ile			1392
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gaa atg atg tgt tct gaa gac aaa gta gaa aag gcc act gga aaa cga Glu Met Met Cys Ser Glu Asp Lys Val Glu Lys Ala Thr Gly Lys Arg			1440
465	470	475	480
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485	490	495	
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cat cgt gtc gaa aaa gaa atg gga ctc tta agt caa aac ggt cat att His Arg Val Glu Lys Glu Met Gly Leu Leu Ser Gln Asn Gly His Ile			1584
515	520	525	
cca aag gaa ctc aag aaa gat ctt cat tgt cac cat ttg cac ctc cag Pro Lys Glu Leu Lys Lys Asp Leu His Cys His His Leu His Leu Gln			1632
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545	550	555	560

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ctt cca acc cta aga aaa caa tat tgc aca tta aaa gaa gcc ggc ctg Leu Pro Thr Leu Arg Lys Gln Tyr Cys Thr Leu Lys Glu Ala Gly Leu 580 585 590	1776
tca aat gct gct ttt gaa tct gac ttc aaa gag atc gaa cat ttg gta Ser Asn Ala Ala Phe Glu Ser Asp Phe Lys Glu Ile Glu His Leu Val 595 600 605	1824
gag agg aaa aaa gtg gta gtt tgg gct gac caa act gcc gaa caa cca Glu Arg Lys Lys Val Val Val Trp Ala Asp Gln Thr Ala Glu Gln Pro 610 615 620	1872
aag caa aac gat cta cca ggg att tct gtt ctt atg acc ttt cca caa Lys Gln Asn Asp Leu Pro Gly Ile Ser Val Leu Met Thr Phe Pro Gln 625 630 635 640	1920
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aat ctg gtt aag att cct aca gaa aaa aga act cgg aga aaa cta atg Asn Leu Val Lys Ile Pro Thr Glu Lys Arg Thr Arg Arg Lys Leu Met 660 665 670	2016
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acc tta atg aaa cca tca tca ttt act aca agt ttt cag gct atc agc Thr Leu Met Lys Pro Ser Ser Phe Thr Thr Ser Phe Gln Ala Ile Ser 725 730 735	2208
tca aac ata aac agt gat aat tgt ctg aaa atg ttg tgt gaa gta gct Ser Asn Ile Asn Ser Asp Asn Cys Leu Lys Met Leu Cys Glu Val Ala 740 745 750	2256
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795	800
 gat cct tct tca ttc tca act aag cat tct atg cct gta cca agc atg	2448
Asp Pro Ser Ser Phe Ser Thr Lys His Ser Met Pro Val Pro Ser Met	
805	810
815	
 gtg cca tcc tac atg gca atg act act gct gcc aaa agg aaa cgg aaa	2496
Val Pro Ser Tyr Met Ala Met Thr Thr Ala Ala Lys Arg Lys Arg Lys	
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 tta aca agt tct aca tca aac agt tcg tta act gca gac gta aat tct	2544
Leu Thr Ser Ser Thr Ser Asn Ser Ser Leu Thr Ala Asp Val Asn Ser	
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845	
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Gly Phe Ala Lys Arg Val Arg Gln Asp Asn Ser Ser Glu Lys His Leu	
850	855
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 caa gaa aac aaa cca aca atg gaa cat aaa aga aac atc tgt aaa ata	2640
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875	880
 aat cca agc atg gtt aga aaa ttt gga aga aat att tca aaa gga aat	2688
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Leu Arg	

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Glu Glu Val Ser Phe Phe His Gly Lys Lys Thr Thr Asn Gln Asn Val	
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Ile Lys Lys Gln Asn Lys Asp Leu Lys Phe Val Phe Asp Ala Val Phe	
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75	80
Asp Glu Thr Ser Thr Gln Ser Glu Val Phe Glu His Thr Thr Lys Pro	
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Ile Leu Arg Ser Phe Leu Asn Gly Tyr Asn Cys Thr Val Leu Ala Tyr	
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Gly Ala Thr Gly Ala Gly Lys Thr His Thr Met Leu Gly Ser Ala Asp	
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Glu Pro Gly Val Met Tyr Leu Thr Met Leu His Leu Tyr Lys Cys Met	
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140	

Asp Glu Ile Lys Glu Glu Lys Ile Cys Ser Thr Ala Val Ser Tyr Leu  
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 Glu Val Tyr Asn Glu Gln Ile Arg Asp Leu Leu Val Asn Ser Gly Pro  
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 180 185 190  
 Thr Leu His Gln Pro Lys Ser Ser Glu Glu Ile Leu His Leu Leu Asp  
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 Lys Thr Ala Ser Ile Asn Gln Asn Val Arg Ile Ala Lys Met Ser Leu  
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 Ile Asp Leu Ala Gly Ser Glu Arg Ala Ser Thr Ser Gly Ala Lys Gly  
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 290 295 300  
 Ile Pro Tyr Arg Asn Ser Lys Leu Thr Arg Leu Leu Lys Asp Ser Leu  
 305 310 315 320  
 Gly Gly Asn Cys Gln Thr Ile Met Ile Ala Ala Val Ser Pro Ser Ser  
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 Val Phe Tyr Asp Asp Thr Tyr Asn Thr Leu Lys Tyr Ala Asn Arg Ala  
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 Lys Asp Ile Lys Ser Ser Leu Lys Ser Asn Val Leu Asn Val Asn Asn  
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 His Ile Thr Gln Tyr Val Lys Ile Cys Asn Glu Gln Lys Ala Glu Ile  
 370 375 380  
 Leu Leu Leu Lys Glu Lys Leu Lys Ala Tyr Glu Glu Gln Lys Ala Phe  
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 Glu Met Met Cys Ser Glu Asp Lys Val Glu Lys Ala Thr Gly Lys Arg  
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 Asp His Arg Leu Ala Met Leu Lys Thr Arg Arg Ser Tyr Leu Glu Lys  
 485 490 495  
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 His Arg Val Glu Lys Glu Met Gly Leu Leu Ser Gln Asn Gly His Ile  
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 Pro Lys Glu Leu Lys Lys Asp Leu His Cys His His Leu His Leu Gln  
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 Asn Lys Asp Leu Lys Ala Gln Ile Arg His Met Met Asp Leu Ala Cys  
 545 550 555 560  
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 Leu Pro Thr Leu Arg Lys Gln Tyr Cys Thr Leu Lys Glu Ala Gly Leu  
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 Ser Asn Ala Ala Phe Glu Ser Asp Phe Lys Glu Ile Glu His Leu Val

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610	615	620
Lys Gln Asn Asp Leu Pro Gly Ile Ser Val Leu Met Thr Phe Pro Gln		
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Leu Gly Pro Val Gln Pro Ile Pro Cys Cys Ser Ser Ser Gly Gly Thr		
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Asn Leu Val Lys Ile Pro Thr Glu Lys Arg Thr Arg Arg Lys Leu Met		
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Pro Ser Pro Leu Lys Gly Gln His Thr Leu Lys Ser Pro Pro Ser Gln		
675	680	685
Ser Val Gln Leu Asn Asp Ser Leu Ser Lys Glu Leu Gln Pro Ile Val		
690	695	700
Tyr Thr Pro Glu Asp Cys Arg Lys Ala Phe Gln Asn Pro Ser Thr Val		
705	710	715
Thr Leu Met Lys Pro Ser Ser Phe Thr Thr Ser Phe Gln Ala Ile Ser		
725	730	735
Ser Asn Ile Asn Ser Asp Asn Cys Leu Lys Met Leu Cys Glu Val Ala		
740	745	750
Ile Pro His Asn Arg Arg Lys Glu Cys Gly Gln Glu Asp Leu Asp Ser		
755	760	765
Thr Phe Thr Ile Cys Glu Asp Ile Lys Ser Ser Lys Cys Lys Leu Pro		
770	775	780
Glu Gln Glu Ser Leu Pro Asn Asp Asn Lys Asp Ile Leu Gln Arg Leu		
785	790	795
Asp Pro Ser Ser Phe Ser Thr Lys His Ser Met Pro Val Pro Ser Met		
805	810	815
Val Pro Ser Tyr Met Ala Met Thr Thr Ala Ala Lys Arg Lys Arg Lys		
820	825	830
Leu Thr Ser Ser Thr Ser Asn Ser Ser Leu Thr Ala Asp Val Asn Ser		
835	840	845
Gly Phe Ala Lys Arg Val Arg Gln Asp Asn Ser Ser Glu Lys His Leu		
850	855	860
Gln Glu Asn Lys Pro Thr Met Glu His Lys Arg Asn Ile Cys Lys Ile		
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Asn Pro Ser Met Val Arg Lys Phe Gly Arg Asn Ile Ser Lys Gly Asn		
885	890	895
Leu Arg		

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Val Met Asp Arg Ser Ala Leu Leu Phe Asp Pro Asp Glu Glu Asp Asp			
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Glu Phe Phe Phe Gln Gly Ala Lys Gln Pro Tyr Arg Asp Ile Thr Lys			
50	55	60	
Arg Met Asn Lys Lys Leu Thr Met Glu Phe Asp Arg Val Phe Asp Ile			
65	70	75	80
Asp Asn Ser Asn Gln Asp Leu Phe Glu Glu Cys Thr Ala Pro Leu Val			

85	90	95
Asp Ala Val Leu Asn Gly Tyr Asn Cys Ser Val Phe Val Tyr Gly Ala		
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Thr Gly Ala Gly Lys Thr Phe Thr Met Leu Gly Ser Glu Ala His Pro		
115	120	125
Gly Leu Thr Tyr Leu Thr Met Gln Asp Leu Phe Asp Lys Ile Gln Ala		
130	135	140
Gln Ser Asp Val Arg Lys Phe Asp Val Gly Val Ser Tyr Leu Glu Val		
145	150	155
Tyr Asn Glu His Val Met Asn Leu Leu Thr Lys Ser Gly Pro Leu Lys		
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Leu Arg Glu Asp Asn Asn Gly Val Val Val Ser Gly Leu Cys Leu Thr		
180	185	190
Pro Ile Tyr Ser Ala Glu Glu Leu Leu Arg Met Leu Met Leu Gly Asn		
195	200	205
Ser His Arg Thr Gln His Pro Thr Asp Ala Asn Ala Glu Ser Ser Arg		
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Ser His Ala Ile Phe Gln Val His Ile Arg Ile Thr Glu Arg Lys Thr		
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Asp Thr Lys Arg Thr Val Lys Leu Ser Met Ile Asp Leu Ala Gly Ser		
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Glu Arg Ala Ala Ser Thr Lys Gly Ile Gly Val Arg Phe Lys Glu Gly		
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Ala Ser Ile Asn Lys Ser Leu Leu Ala Leu Gly Asn Cys Ile Asn Lys		
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Leu Ala Asp Gly Leu Lys His Ile Pro Tyr Arg Asp Ser Asn Leu Thr		
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Arg Ile Leu Lys Asp Ser Leu Gly Gly Asn Cys Arg Thr Leu Met Val		
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Ala Asn Val Ser Met Ser Ser Leu Thr Tyr Glu Asp Thr Tyr Asn Thr		
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Leu Lys Tyr Ala Ser Arg Ala Lys Lys Ile Arg Thr Thr Leu Lys Gln		
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Leu Glu Ala Lys Ala Thr Gln Leu Glu Arg Ala Gly Asn Ser Gly Phe		
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Asp Pro Leu Glu Leu Lys Thr Trp Tyr Ser Lys Ile Asp Ala Val Tyr		
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Ala Ala Ala Arg Gln Leu Gln Glu His Val Leu Gly Met Arg Ser Lys		
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Ile Lys Asn Ile Asn Tyr Arg Gln Thr Leu Lys Lys Glu Leu Glu Glu		
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Phe Arg Lys Leu Met Cys Val Asp Gln Arg Val Cys Gln Glu Asp Phe		
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Arg Arg Phe Ala Asn Tyr Met Ser Thr Leu Thr Ser Gln Met Glu Lys		
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Tyr Lys Glu Glu Leu Pro Ser Trp Leu Ser Lys Met Glu Ile Ala Tyr		
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Gln Asp Leu Glu Ser Leu Lys Arg Glu Val Asn Lys Ser Lys Ala Tyr		
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Gln Ile Leu Ile Val Tyr Val Lys Tyr Lys Asp Leu Glu Leu Gln Leu		
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Thr Lys Gln Asn Ile Phe Asn Asn His Val Asn Ala Ile Asn Gln Glu		
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 Thr Pro Glu Ile Glu Ala Val Phe Glu Arg Leu Leu Arg Lys Met Arg  
 580 585 590  
 Phe Ala Asp Ser Glu Ala Asn Thr Lys Met Ala Glu Met Asn Pro Leu  
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 Ala Val Pro Val Ala Leu Arg Ser Ser Ala Gln Glu Glu Glu Glu Pro  
 610 615 620  
 Thr Cys Ser Leu Thr Ala Ser Ala Lys Lys Arg Gln Arg Gln Ala Ala  
 625 630 635 640  
 Gln Ser Asp Asp Asp Leu His Leu Ser Met Glu Asp Phe Asp Ser Gln  
 645 650 655  
 Asp Thr Glu Ser Asp Ser Glu Glu Leu His Arg Thr Phe Lys Arg Pro  
 660 665 670  
 Arg Asn Leu Asn Glu Thr Gln Val Leu Gly Pro Cys Ser Ser Ser Ser  
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 Ser Ser Ser Thr Ser Ser Ser Ala Arg Lys Ala Leu Thr Ala  
 690 695 700  
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 705 710 715 720  
 Ile Ser Asp Gln Asn Val Arg Gly Gly Asn Glu Lys Ile Lys Lys Ala  
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Val Met Asp Arg Ser Ala Leu Leu Phe Asp Pro Asp Glu Glu Asp Asp	
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ggt ctg acc tat ctt acc atg caa gat ctc ttc gat aag atc caa gcg Gly Leu Thr Tyr Leu Thr Met Gln Asp Leu Phe Asp Lys Ile Gln Ala 130 135 140	432
cag agc gac gtg cgc aag ttc gat gtg ggg gta tcc tat cta gag gtg Gln Ser Asp Val Arg Lys Phe Asp Val Gly Val Ser Tyr Leu Glu Val 145 150 155 160	480
tac aac gaa cat gtg atg aat ctg cta act aaa tcg ggc cct tta aaa Tyr Asn Glu His Val Met Asn Leu Leu Thr Lys Ser Gly Pro Leu Lys 165 170 175	528
ctt cgc gag gac aac aat ggc gtg gtg gtc agt ggt ctt tgt ctc acg Leu Arg Glu Asp Asn Asn Gly Val Val Val Ser Gly Leu Cys Leu Thr 180 185 190	576
ccc atc tac agt gcc gag gag ctg cta aga atg ctg atg ctg ggc aac Pro Ile Tyr Ser Ala Glu Leu Leu Arg Met Leu Met Leu Gly Asn 195 200 205	624
tct cat cgc act cag cac ccc aca gat gcc aat gca gag agt tcc agg Ser His Arg Thr Gln His Pro Thr Asp Ala Asn Ala Glu Ser Ser Arg 210 215 220	672
tca cat gcc atc ttc cag gtg cac att agg atc acg gag cgc aag acc Ser His Ala Ile Phe Gln Val His Ile Arg Ile Thr Glu Arg Lys Thr 225 230 235 240	720
gac acc aaa aga acg gtc aaa cta tcc atg atc gat ctg gcg ggc agt Asp Thr Lys Arg Thr Val Lys Leu Ser Met Ile Asp Leu Ala Gly Ser 245 250 255	768
gag agg gcg gcc agt acg aaa ggc att gga gtg cga ttc aag gaa ggc Glu Arg Ala Ala Ser Thr Lys Gly Ile Gly Val Arg Phe Lys Glu Gly 260 265 270	816
gcc agc atc aac aaa agt ctc tta gct ttg gga aat tgc ata aac aag	864

Ala Ser Ile Asn Lys Ser Leu Leu Ala Leu Gly Asn Cys Ile Asn Lys			
275	280	285	
ctc gcc gac ggc tta aag cac atc ccg tac cgc gac tcg aac ctg aca			912
Leu Ala Asp Gly Leu Lys His Ile Pro Tyr Arg Asp Ser Asn Leu Thr			
290	295	300	
cgc atc ctg aag gac tcg ttg ggc gga aat tgt cgc aca ttg atg gtg			960
Arg Ile Leu Lys Asp Ser Leu Gly Gly Asn Cys Arg Thr Leu Met Val			
305	310	315	320
gcc aat gtc tcg atg agc tca ctg acc tat gaa gat acc tac aac acc			1008
Ala Asn Val Ser Met Ser Ser Leu Thr Tyr Glu Asp Thr Tyr Asn Thr			
325	330	335	
ctt aag tac gct agc cga gct aag aag ata cgc acg act ctg aaa cag			1056
Leu Lys Tyr Ala Ser Arg Ala Lys Lys Ile Arg Thr Thr Leu Lys Gln			
340	345	350	
aat gtc ctc aag tcc aag atg cca acc gag ttc tat gtg aag aag atc			1104
Asn Val Leu Lys Ser Lys Met Pro Thr Glu Phe Tyr Val Lys Lys Ile			
355	360	365	
gac gag gtg gta gcc gag aac gag cga ctc aaa gag cgc aac aag gcg			1152
Asp Glu Val Val Ala Glu Asn Glu Arg Leu Lys Glu Arg Asn Lys Ala			
370	375	380	
ctg gag gcc aag gcc act cag ttg gag cgc gcc ggc aat agt gga ttc			1200
Leu Glu Ala Lys Ala Thr Gln Leu Glu Arg Ala Gly Asn Ser Gly Phe			
385	390	395	400
gat ccg ctg gag ctt aag acg tgg tac agc aag ata gac gct gta tat			1248
Asp Pro Leu Glu Leu Lys Thr Trp Tyr Ser Lys Ile Asp Ala Val Tyr			
405	410	415	
gcg gcc gcc cgg cag ctt cag gag cac gtc ctt ggt atg cgt agc aag			1296
Ala Ala Ala Arg Gln Leu Gln Glu His Val Leu Gly Met Arg Ser Lys			
420	425	430	
atc aag aac atc aac tac cgg cag aca ctg aaa aaa gaa ctg gag gag			1344
Ile Lys Asn Ile Asn Tyr Arg Gln Thr Leu Lys Lys Glu Leu Glu Glu			
435	440	445	
ttc agg aag ctg atg tgt gtc gac cag cga gtg tgc cag gag gac ttc			1392
Phe Arg Lys Leu Met Cys Val Asp Gln Arg Val Cys Gln Glu Asp Phe			
450	455	460	
cgt cgc ttt gcg aac tac atg agc aca ctg acc agc cag atg gag aag			1440
Arg Arg Phe Ala Asn Tyr Met Ser Thr Leu Thr Ser Gln Met Glu Lys			
465	470	475	480
tac aag gag gag ttg ccc agc tgg ctg agt aaa atg gag att gcc tac			1488
Tyr Lys Glu Glu Leu Pro Ser Trp Leu Ser Lys Met Glu Ile Ala Tyr			
485	490	495	
cag gat cta gaa agt cta aag cga gag gtt aac aaa tca aag gcc tac			1536
Gln Asp Leu Glu Ser Leu Lys Arg Glu Val Asn Lys Ser Lys Ala Tyr			

500	505	510	
cag ata ctc att gta tac gtt aag tac aag gat ctc gag ctg cag ctg Gln Ile Leu Ile Val Tyr Val Lys Tyr Lys Asp Leu Glu Leu Gln Leu 515	520	525	1584
acc aag cag aat atc ttt aac aat cac gtg aac gca att aac cag gag Thr Lys Gln Asn Ile Phe Asn Asn His Val Asn Ala Ile Asn Gln Glu 530	535	540	1632
ctg gtt gag aac ttg gat ctg atg cga aag tcc ttc cga aca gcc tgc Leu Val Glu Asn Leu Asp Leu Met Arg Lys Ser Phe Arg Thr Ala Cys 545	550	555	1680
gaa gtg ctc aac cag acg tac gat cgc ctc gag gat ggt caa aag ctg Glu Val Leu Asn Gln Thr Tyr Asp Arg Leu Glu Asp Gly Gln Lys Leu 565	570	575	1728
acg ccg gaa att gag gcg gtc ttc gaa agg ttg ctg cga aag atg cgg Thr Pro Glu Ile Glu Ala Val Phe Glu Arg Leu Leu Arg Lys Met Arg 580	585	590	1776
ttc gcc gat tcc gag gcc aat acc aaa atg gcc gag atg aat ccg ttg Phe Ala Asp Ser Glu Ala Asn Thr Lys Met Ala Glu Met Asn Pro Leu 595	600	605	1824
gcg gtg cct gtg gct ctg cgc agc agc gcc cag gag gaa gaa gag ccc Ala Val Pro Val Ala Leu Arg Ser Ser Ala Gln Glu Glu Glu Pro 610	615	620	1872
aca tgc agc ctc acg gcc agc gcc aaa aag cga caa agg caa gcg gct Thr Cys Ser Leu Thr Ala Ser Ala Lys Lys Arg Gln Arg Gln Ala Ala 625	630	635	1920
cag agc gac gac gat ctg cat ttg agc atg gag gac ttt gat agc cag Gln Ser Asp Asp Asp Leu His Leu Ser Met Glu Asp Phe Asp Ser Gln 645	650	655	1968
gac acc gaa tca gat tcc gag gag ctg cac agg acg ttt aag agg cca Asp Thr Glu Ser Asp Ser Glu Glu Leu His Arg Thr Phe Lys Arg Pro 660	665	670	2016
cga aat cta aac gaa acg cag gtc ctg ggt ccc tgc agc agt agt tct Arg Asn Leu Asn Glu Thr Gln Val Leu Gly Pro Cys Ser Ser Ser Ser 675	680	685	2064
agc agc agt act tct agc agt agc gca agg aag gca ctc acg gcg Ser Ser Ser Thr Ser Ser Ser Ala Arg Lys Ala Leu Thr Ala 690	695	700	2112
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ata tcc gat cag aat gtg cgc ggt ggc aat gaa aag atc aag aag gct Ile Ser Asp Gln Asn Val Arg Gly Gly Asn Glu Lys Ile Lys Lys Ala 725	730	735	2208

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Leu Leu Lys Ser Asn His Phe Thr Ala Gln Gly Leu Gln Arg Thr Leu	
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Ala Ala Ala Ser Leu Ala Lys Glu Asn Val Lys Tyr Asn Ala Asn Tyr	
755 760 765	
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Val Arg Lys Ser Pro Arg Ala Leu Met Ala Lys Ala Leu Ala Gly Thr	
770 775 780	
tcg acg ctt gcg aga aaa ccg ctg gga tcg gcc agt aag gag ccg cct	2400
Ser Thr Leu Ala Arg Lys Pro Leu Gly Ser Ala Ser Lys Glu Pro Pro	
785 790 800	
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